



January 4, 1994

Ms. Liza Montalvo
Residual Project Manager
Kentucky/Tennessee Section
U. S. Environmental Protection Agency
Region IV
345 Courtland Street, N. E.
Atlanta, Georgia 30365

**Re: Report of Field Observation - FY 94, Second Quarter (FY94-2Q),
Lees Lane Superfund Site, Jefferson County, Kentucky,
Administrative Order on Consent, USEPA Docket No. 91-32-C**

Dear Ms. Montalvo:

In accordance with Paragraph 11, under the heading Reporting Requirements, of the subject Consent Order and Attachment 1, Operation and Maintenance Plan For Post-Removal Site Control at the Lees Lane Landfill Site, I am enclosing one (1) copy of the Report of Field Observation (Appendix J), identified as Observation Report No. FY94-2Q, for your information and files.

Please advise if you have any questions concerning the attached Report of Field Observation for FY94-2Q.

Very truly yours,


C. A. Neumayer
Director of Operations

CAN/dc
CAN31.1D

Enc.

DOCUMENT CONTROL NUMBER 440083 AGVA

cc: Kentucky Natural Resource Environment Protection Cabinet
ATTN: Mr. Rick Hogan, Division of Waste Management
G. R. Garner, Executive Director
File WD-2 (Lees Lane M&M Quarterly)

bc: G. E. Ettel
R. L. Hutchison
R. H. Watkins
D. R. Sammons
L. L. Melisizwe



REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No: FY 94 - 20 Date of Observation: 12/15/93
Time Arrived Onsite: 11:10 a.m. Time Departed Site: 12:20 p.m.
Field Personnel: C. A. Neumayer, Director of Operations and R. H. Watkins,
Support Services Administrator, Maintenance Division

Section A: General Site Conditions

Observation:	Yes*	No	Not Observed	Comment No.
1. Major settlement of topsoil or erosion exposing waste/ fill material	<u>X</u>	<u>—</u>	<u>—</u>	<u>A-1</u>
2. Evidence of leachate seepage	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
3. Distressed Vegetation	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
4. Pot holes, erosion of access road	<u>X</u>	<u>—</u>	<u>—</u>	<u>A-4</u>

Section B: Institutional Controls

Observation:	Yes*	No	Not Observed	Comment No.
1. Structural problem with Lee's Lane gate or barricade	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
2. Structural problem with Putman Ave. barricade	<u>X</u>	<u>—</u>	<u>—</u>	<u>B-2</u>
3. Lee's Lane gate unlocked	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
4. Broken or missing lock	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>

Section C: Gas Collection System

Observation:	Yes*	No	Not Observed	Comment No.
1. Vandalism to blower house, wells, or moisture traps	<u>X</u>	<u>—</u>	<u>—</u>	<u>C-1</u>
2. Structural damage to blower house	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
3. Blower not operating or visible damage	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>
4. Blower house not secure and unclean	<u>—</u>	<u>X</u>	<u>—</u>	<u>—</u>

Observation:	<u>Yes*</u>	<u>No</u>	<u>Not Observed</u>	<u>Comment No.</u>
5. Service box lids not in place	—	X	—	—
6. Alarm and blower controls not functioning	—	X	—	—
7. Settlement or tilting of well/moisture trap concrete collars	X	—	—	C-7
8. Well/moisture trap covers missing or damaged	—	X	—	—
9. Excessive vegetation covering wells/moisture traps	—	X	—	—
10. Adjustment valve inaccessible	—	X	—	—
11. Well/moisture trap caps, plugs, and piping missing or damaged	X	X	—	C-11
12. Blower house and well/moisture trap signs missing or damaged	X	—	—	C-12

Section D: Groundwater & Gas Monitor Wells

Observation:	<u>Yes*</u>	<u>No</u>	<u>Not Observed</u>	<u>Comment No.</u>
1. Wells unlocked	—	X	—	—
2. Guard posts and rails missing or damaged	X	X	—	D-2
3. Protective casing missing, damaged or rusted	—	X	—	—
4. Concrete pads damaged or cracked	X	—	—	D-4
5. Possible surface water infiltration into wells	—	X	—	—
6. Excessive vegetation or debris around wells	—	X	—	—
7. Well cap missing or damaged	—	X	—	—
8. Tubing, fittings, and valves missing or damaged (gas wells only)	—	—	X	D-8

Section E: Bank Protection Controls

Observation:	Yes*	No	Not Observed	Comment No.
1. Subsidence of slope, sloughing or caving	—	X	—	—
2. Erosion of rip-rap or underlying material	—	—	X	E-2
3. Abnormally damp areas, wet ground vegetation	—	X	—	—
4. Soft spots in surface	X	—	—	E-4
5. Seepage, water flow, piping, or sand boils	—	—	X	—
6. Undermining of rip-rap	—	X	—	—
7. Vegetative growth on rip-rap slope	X	—	—	E-7
8. Buildup of trash and debris on rip-rap	X	—	—	E-8
9. Exposed trash or filter fabric	—	X	—	—
10. Tilting trees	—	X	—	—
11. Tension cracks	—	X	—	—
12. Survey monuments missing or damaged	—	X	—	—

Section F: Surface Waste Cleanup/Cover

Observation:	Yes*	No	Not Observed	Comment No.
1. Swales greater than 1 foot wide and 2 inches deep	—	X	—	F-1
2. Cracks greater than 1 inch wide and 6 inches deep	—	X	—	F-2
3. Areas of erosional damage to grass	—	X	—	—
4. Inadequate grass cover (area > 36 ft ²)	—	X	—	—
5. Ponded water (area larger than 2 feet in diameter and 3 inches deep)	X	—	—	F-5
6. Erosion or ponded water greater than 12 inches deep (requires immediate repair)	—	X	—	—

* If yes, assign a comment no. in the last column and follow instructions on comment sheet.

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY 94-20

Date of Observation: 12/15/93

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:

Comment

A-1

Observed rutted area in the vicinity of Gas Collection Well No. 6. Also, rutted areas noted along the levee roadway caused by ATVs. No landfill material exposed in the vicinity of Well No. 6.

A-4

Observed several depressed and rutted areas along the graveled roadway leading to Groundwater Monitoring Well No. 5.

B-2

Conditions observed at the Putman Avenue barricade were unchanged from those observed during the prior quarterly inspections. The additional security cable installed by MSD force account continues to prevent unauthorized entry to the site from adjacent residential properties at the end of Putman Avenue.

Comment No.

Corrective Action Performed

A-1

Rutted area in the vicinity of Gas Collection Well No. 6 needs to be filled in along with depressions on levee roadway as part of MSD floodwall levee maintenance activities as rapidly as weather conditions permit, but no later than FY 94 - 4Q.

A-4

Rutted and depressed areas along gravel access road to Groundwater Monitoring Well No. 5 to be filled with gravel as soon as weather conditions and work schedules permit, but no later than FY 94-4Q.

B-2

No corrective action required.

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY 94-2Q Date of Observation: 12/15/93

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:

Comment

<u>C-1</u> _____ _____ _____	For the first time since FY 93-4Q there was significant evidence of small arms fire damage to the Blower House concrete block walls and warning signs.
<u>C-2</u> _____ _____ _____	No significant structural damage to the Blower House was observed at the time of the inspection except for chipping of the concrete block by small arms fire.
<u>C-7</u> _____ _____ _____	Observed several gas collection well and moisture trap concrete collars damaged as a result of site mowing activities. This damage was previously reported during prior quarterly observations.
<u>C-11</u> _____ _____ _____	Need to verify the vacuum conditions of the well field piping systems between Gas Collection Wells No. 1 and 14, inclusive. Arrangements for investigation of vacuum conditions depends on scheduling arrangements between MSD's Urban Area, Maintenance Section, and the Maintenance Division, Wastewater Repair Department.

Comment No.

Corrective Action Performed

<u>C-1</u> _____ _____ _____	Small arms fire damage to the concrete block walls of the Blower House to be patched when weather and work schedules permit, but no later than FY 94-4Q.
<u>C-2</u> _____ _____ _____	No corrective action required.
<u>C-7</u> _____ _____ _____	Damaged concrete well and moisture trap collars to be scheduled for repair or replacement following installation of remaining markers for Gas Collection System.
<u>C-11</u> _____ _____ _____	Additional vacuum testing will be scheduled to verify which gas collection wells are not functioning. Following verification, selective exploratory excavation work will be performed to expose several well head and moisture traps in order to determine what problems are causing the lack of vacuum on the wells. Depending on work schedules and weather conditions this work will be performed on or before the end of FY 94-4Q.

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY 94 - 20 Date of Observation: 12/15/93

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:

Comment

C-12

Observed that MSD maintenance forces have not completed installation of new well and moisture trap markers except for Wells No. 3 through 23, inclusive. Adverse weather conditions and other scheduled work activities have delayed completion of this work.

D-2

Observed a portion of horizontal guard rail missing on Gas Well No. 1.

D-4

Observed damage and cracking of concrete seal pads on Groundwater Monitoring Wells Nos. 1, 2 and 3.

D-8

Condition of tubing and fittings at Gas Monitoring Wells could not be observed because all security locks were in place.

Comment No.

Corrective Action Performed

C-12

Remaining gas collection well markers will be installed by MSD force account depending on work schedules and water conditions, but no later than the end of FY 94-40.

D-2

Repair to guardrail on Gas Monitoring Well No. 1 to be scheduled for end of FY 94-40.

D-4

Cracked concrete monitoring wells seal pads to be removed and replaced when the weather and work schedules permit, prior to the end of FY 94-40.

D-8

No corrective action required.

Observation Report No. FY 94-20 Date of Observation: 12/15/93

Comment No:	Comment
-------------	---------

Comment No.	Corrective Action Performed
E-2	Arrangements to be made for an independent contractor to spray for control of excessive vegetative growth in riprap section with herbicide prior to the end of FY94-4Q.
E-4	Depressed area to be back filled with dirt, seeded and observed during subsequent quarterly institutional inspections for any recurrence of condition observed. This back filling work to be completed prior to the end of FY 94-4Q.
E-7	Refer to E-2 above.

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY94-2Q

Date of Observation: 12/15/93

Instruction: If any item is checked yes, provide details of the problem and maintenance recommendations below and indicate the location deficiency on the site map provided.

Comment No:

Comment

<u>E-8</u> _____ _____ _____ _____	<u>Observed evidence of drift debris deposited by high Ohio River water levels. This drift has been deposited on the lower portion of the riprap section of the clay cap bank and is substantially the same as observed during prior quarterly institutional inspections.</u> _____
<u>F-1</u> _____ _____ _____	<u>Observed the major surface drainage swale between the crossing at the cap access road and the top of the riprap section. This drainage swale was observed to be in satisfactory condition with no evidence of erosion or standing water between the access road and the riprap section.</u> _____
<u>F-2</u> _____ _____	<u>Observed no cracks in the clay cap area. Observation was limited because of extended wet weather conditions which could cause vehicular rutting damage to vegetation and surface areas.</u> _____
<u>F-5</u> _____ _____	<u>As a result of recent rainfall events, observed standing water in the depressed inlet to the culvert under the cap access road. The depth of the water standing in the upper inlet area was approximately 9 to 12 inches.</u> _____

Comment No.

Corrective Action Performed

<u>E-8</u> _____ _____ _____	<u>No corrective action proposed to remove drift from the riprap section of the clay cap area because of the lack of proper access. Drift debris is not causing any problems at this time.</u> _____
<u>F-1</u> _____ _____	<u>Will continue to monitor major shale drainage swale at quarterly inspection intervals for any significant evidence of erosion or standing water.</u> _____
<u>F-2</u> _____	<u>No corrective action required.</u> _____
<u>F-5</u> _____ _____ _____	<u>Bottom of depressed inlet is below culvert invert. Will back fill drainage inlet to invert elevation coincident with other work, see E-4 above.</u> _____ _____

REPORT OF FIELD OBSERVATION
LEE'S LANE LANDFILL SITE, LOUISVILLE, KENTUCKY

Observation Report No. FY 94-20 Date of Observation 12/15/93

Site Map

Signature of Observer: *Al Burnage* Date: January 4, 1994